APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANOVSKAYA, M. A.

"Investigation of Optimum Conditions for the Operation of Packed Extraction Columns." Thesis for degree of Cand. Technical Sci. Sub 24 Jun 5., Moscow Order of Lenin Chemico-technological Institute imeni D. I. Mendeleyev

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec 1950.

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TOPCHIYEVA, K.V.; PLANOVSKAYA, I.P.; LUSHNIKOV, V.V.

Studying the kinetics of the cracking of cumene on a fluidized aluminosilicate catalyst. Vest.Mosk.un.Ser.mat., mekh., astron. fiz., khim. 14 no.3:151-157 '59. (MIRA 13:5)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta.

(Cumene) (Cracking process)

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TOPCHIYEVA, K.V.; PLANOVSKAYA, I.P.

Relationship between the extent of gaseous phase mixing in a fluidized bed and the flow rate and height of the catalyst layer. Dokl. AN SSSR 141 no.3:679-682 N '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom S.I. Vol'fkovichem.
(Fluidization) (Catalysts)

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68053

Investigation of the Kinetics of the Cracking Reaction of Cumene on a Pseudoliquid Aluminosilicate Catalyst SOV/55-59-3-19/32

tion may be attained, which leads to the conclusion that it is possible to intensify the cracking process even more. There are 4 figures, 3 tables, and 6 references, 4 of which are Soviet.

ASSOCIATION: Kafedra fizicheskoy khimii (Chair of Physical Chemistry)

SUBMITTED: December 2, 1958

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benzene plus the molar fraction of cumene which did not enter into reaction. The change of the volume rate (referred to the unit of volume of the catalyst) was effected by changing the quantity of the catalyst introduced into the apparatus with a constant rate of flow of the cumene. Experimental results are given in table 1. The contact time was calculated from the ratio v/v_h (v = volume of the reaction zone in m^3; v_h = rate of flow in m^3/h). Figure 3 shows the dependence of the degree of transformation on the contact time in a suspended and in a fixed catalyst. With a suspended catalyst the reaction develops much more rapidly. The kinetic data were further evaluated on the basis of the equation holding for the ideal mixture of the added substance with the reaction products (Table 2, Fig 4). It was found that under the given conditions, the process developed while the gaseous phase was completely mixed. Calculation of the reaction under the conditions of ideal shifting (i.e., under conditions at which the reaction products are shifted by the added substance without being mixed) shows (Table 3, Fig 3) that in this case higher degrees of transforma-

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~~5-(3)~~

68052

SOV/55-59-3-13/32

AUTHORS: Topchiyeva, K. V., Planovskaya, I. P., Lushnikov, V. V.

TITLE: Investigation of the Kinetics of the Cracking Reaction of Cumene on a Pseudoliquid Aluminosilicate Catalyst

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, Nr 3, pp 151 - 157 (USSR)

ABSTRACT: It was the object of this paper to compare the kinetics of cumene cracking on a suspended fine-grained aluminosilicate catalyst with the kinetics of this reaction on a solid catalyst. An aluminosilicate was used, the spherical particles of which had a diameter of 0.1 - 0.2 mm (Fig 1). Figure 2 shows the apparatus used for experiments with a suspended (pseudoliquid) catalyst. The experiments were carried out at 425°. The cumene was conveyed through by means of dry nitrogen heated to 160°. The passage velocity and concentration were kept constant: Passage of nitrogen: 0.20 ± 0.004 l/min, passage of cumene: 20.00 ± 0.05 ml/min. Cracking on the solid aluminosilicate catalyst occurred in the usual apparatus. The degree of cumene transformation was determined from the ratio of the molar fraction of the benzene formed to the sum of the molar fraction of

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PLANOJEVIĆ, R. U.

380

Dependence of the coloration intensity of the adsorbent on the quantity of the adsorbed coloured matter. D. Konjević, Miodrag Ilić and R. V. Planojević. *Glasn. Soc. Chim. Beograd*, 1955, 20, 287–295. An investigation between the coloration intensity of silica gel I) and the quantity of methylene blue adsorption III) under equilibrium conditions of static and dynamic adsorption was studied. Adsorption was observed in 25–30 ml. of solution with six different concn. and four time-intervals. II was determined by colorimetric measurements on the solution before and after adsorption. The relation between I and II in both static and dynamic adsorptions was not exponential in character. In cases where II per unit area of adsorbent was the same, I was less in dynamic than in static adsorption. This is attributed to deeper penetration into the mass of adsorbent. In a longer exposure from higher concn. I becomes the same for both static and dynamic conditions.

J. S. C.

(1)

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PLANOGENIC RADIOFF.

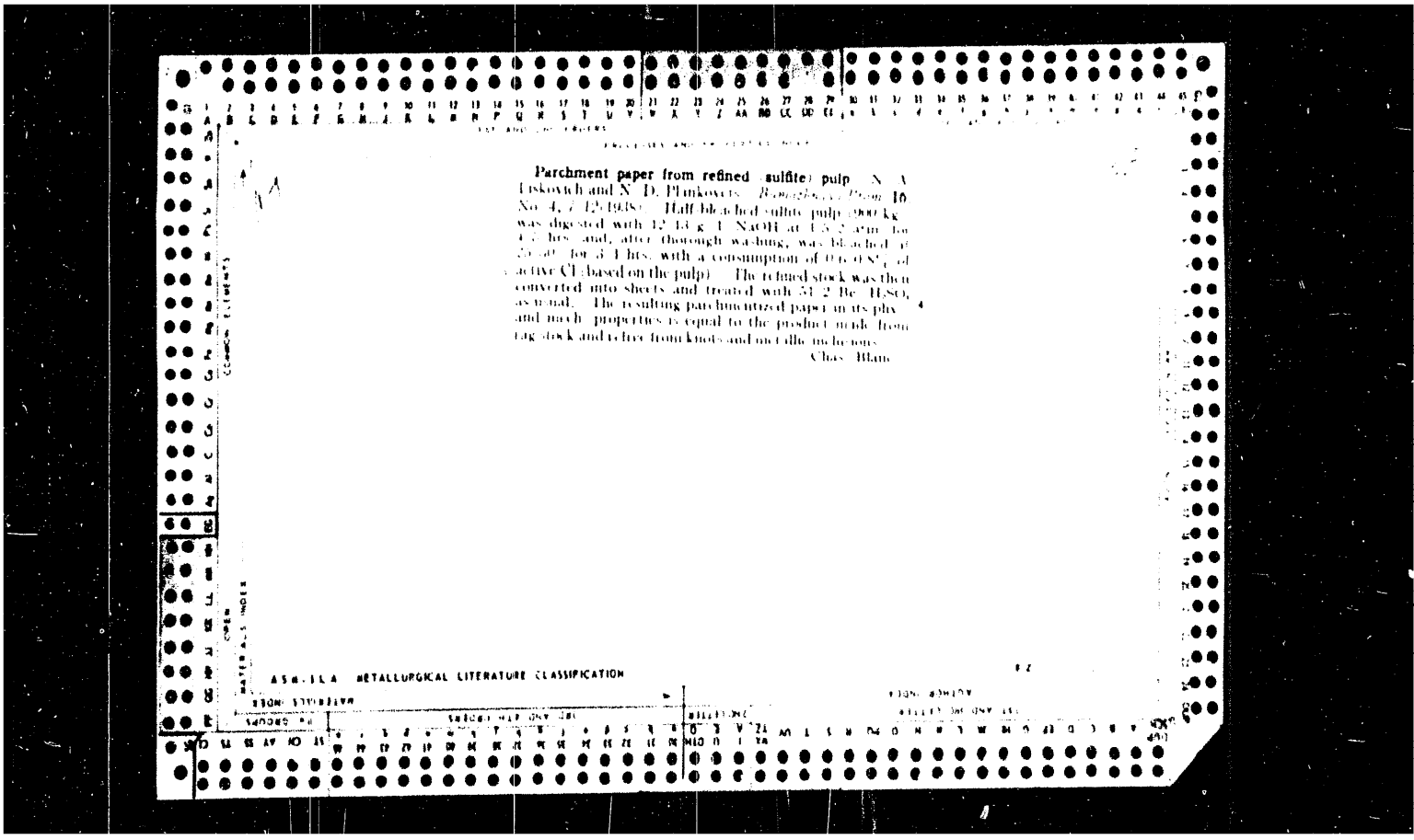
Biol. Abst.

Dependence of coloration intensity of the adsorbent on the quantity of the colored matter adsorbed. Nikolaos Kon-Anthimidis and Fadimé Y. Hamdi. (Chemical Laboratory, Robert College, Istanbul.) *Helvetica Chimica Acta* 29, 307–16 (1946).—The dependence of coloration intensity of the adsorbent, SiO_2 gel, on the quantity of methylene blue adsorbed was studied under the conditions of static and dynamic adsorption, with the equil. of the system not established. The adsorption was from 20 and 20 cc. of soln. of 6 different concns. The quantity adsorbed was detd. by colorimetric measurement of the soln. (cf. Kondo-Dhardjeke, C. and Tokumoto-Tanaka, C., *Bull. Soc. Chim. Belg.* 47, 306 (1938)). Beer's law held in the adsorption and was given by $I = kq$, q = gm. of the surface area of the adsorbent in the form of film. The dependence of coloration intensity of the adsorbent on the quantity of the colored matter adsorbed, both in static and dynamic adsorption, was not of an exponential character. With the same quantities of colored matter were adsorbed in the film per unit area, the coloration intensity in the dynamic adsorption was lower than in the static adsorption. This was explained by the deeper penetration of the colored matter into the mass of the adsorbent. With prolonged exposure to adsorption at higher concns., coloration intensities were equal under the 2 conditions.

A. Silverman

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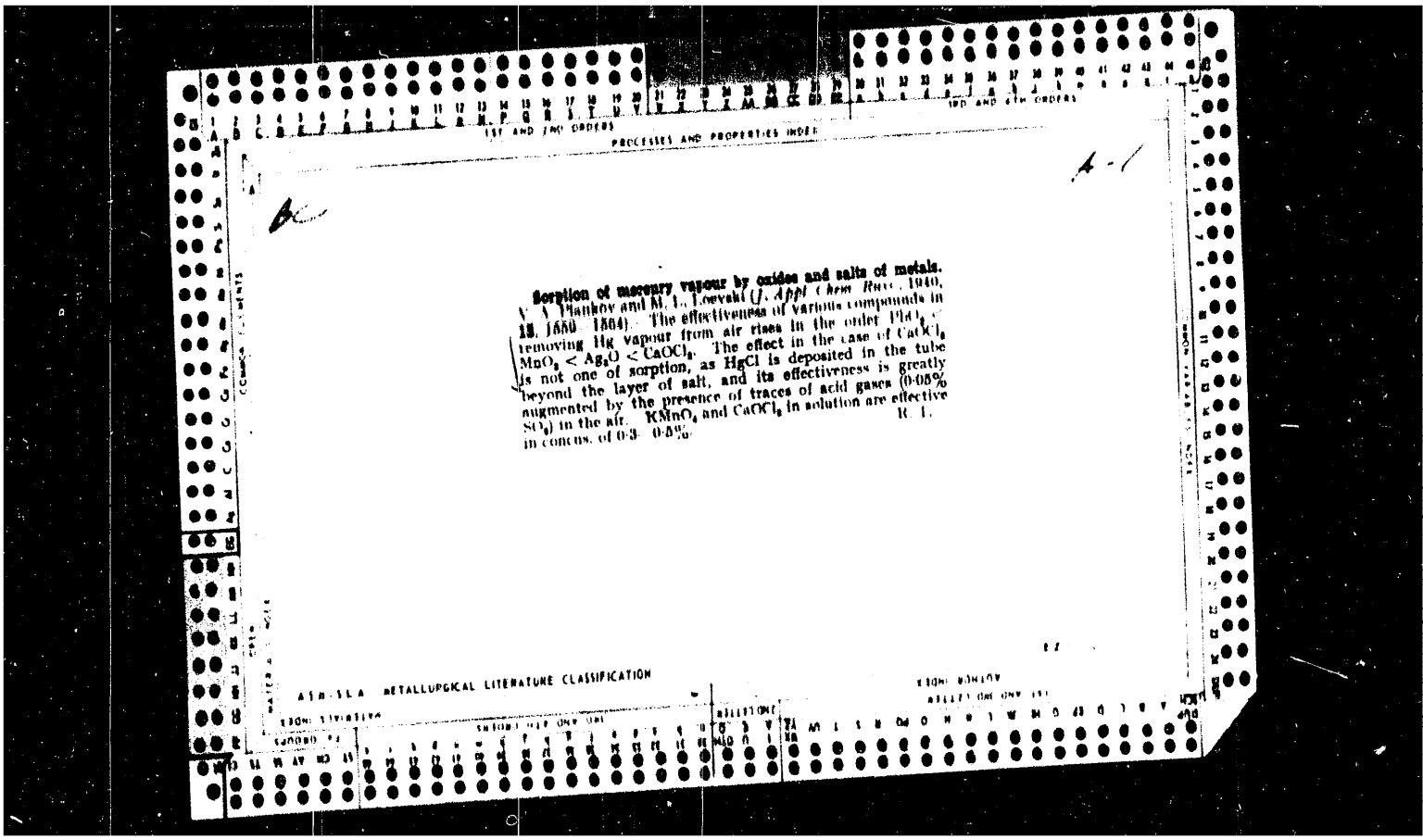
Parchment paper from refined sulfite pulp. N. A. Eskovich and N. D. Plinkovets. *Bumazh. Prom.* 16 No. 4, 7-12(1938). Half bleached sulfite pulp (900 kg.) was digested with 12.13 g. l. NaOH at 0.3-2 atm. for 4.5 hrs. and, after thorough washing, was bleached at 25-40° for 3-4 hrs. with a consumption of 0.6-0.8% (of active Cl based on the pulp). The refined stock was then converted into sheets and treated with 54.2 Be' H_2SO_4 as usual. The resulting parchmentized paper in its phys. and mech. properties is equal to the product made from rag stock and is free from knots and mechanic inclusions.

Chas. Blanc

ASM-TLA METALLURGICAL LITERATURE CLASSIFICATION

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Sorption of mercury vapour by oxides and salts of metals. V. V. Pechkov and M. L. Lovtsyaki (*J. Appl. Chem. Russ.*, 1940, **13**, 1650–1664). The effectiveness of various compounds in removing Hg vapour from air rises in the order $Pb(C_2H_3O_2)_2$ < MnO_2 < Ag_2O < $CaOCl_2$. The effect in the case of $CaOCl_2$ is not one of sorption, as HgCl is deposited in the tube beyond the layer of salt, and its effectivness is greatly augmented by the presence of traces of acid gases (0·08% SO_2) in the air. $KMnO_4$ and $CaOCl_2$ in solution are effective in concns. of 0·3–0·5%. R. T.

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PLANKO, Otto (Vasa, Borsod megye)

Why are the PCL 82 tubes poor? Radiotechnika 13 no.1:25 Ja '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, Z.A.; OGNEVA, N.S.

Case of the isolation of the pseudotuberculosis pathogen from Marmota baibacina. Zhur. mikrobiol. epid. i immun. 32 no.5:124-127 My '61. (MIRA 14:6)

(PASTEURELLA PSEUDOTUBERCULOSIS)
(MARMOTS—DISEASES AND PESTS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, Z.A.; NIKONOV, A.G.; SAYAMOV, R.M.; KOTLYAROVA, R.I.

Control of cholera in Afghanistan. Zhur.mikrobiol., epid.i immun. 32 no.12:20-24 D '61. (MIRA 15:11)

1. Iz protivochumnykh uchrezhdeniy Ministerstva zdravookhraneniya SSSR.

(AFGHANISTAN--CHOLERA, ASIATIC--PREVENTIVE INOCULATION)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

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ZHDANOV, V.N., professor, redaktor; PLANKINA, Z.A., redaktor; STOYANOV, B.G., redaktor; YEVDOKIMOVA, Z.N., tekhnicheskiy redaktor

[Brucellosis; materials on organization and methodology] Brutsellez; organizatsionno-metodicheskie materialy. Izd.4-oe, dop.i perer. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 116 p. (MLRA 9:4)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR, (for Zhdanov)

(BRUCELLOSIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, Z.A.; NIKONOV, A.G.; SAJAMOV, R.M.; KOTLJAROVA, R.I.

Cholera control in Afghanistan. Cesk. epidem. 11 no.1:65-69 Ja '62.

1. Laboratory vysoce virulentnich infekci ministerstva zdravotnictvi SSSR.

(CHOLERA prev. & control)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

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NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.N., zam. otv. red.; PASTUKHOV, B.N., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I., red.; AKIYEV, A.K., red.; DOMARADSKIY, I.V., red.; DROZHEVKINA, M.S., red.; ZHOVTYY, I.F., red.; KOROBKOVA, Ye.I., red.; KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.; LOBANOV, V.N., red.; MIRONOV, N.P., red.; PETROV, V.S., red.; PLANKINA, Z.A., red.; PYPINA, I.M., red.; SMIRNOV, S.M., red.; TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDOROV, V.N., red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i prirodnoochagovye infektsii; sbornik nauchnykh rabot protivochumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.
(MIRA 16:5)

(COMMUNICABLE DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, A.V., inzh.

Increasing the durability of the small bell in blast furnaces. (MIRA 15:5)
Stal' 22 no.4:304 Ap '62.

1. Kuznetskiy metallurgicheskiy kombinat.
(Blast furnaces)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, A.V., inzh.; BELIKOV, P.Ye., inzh.; PSHENICHNOV, P.I.

Use of large cast steel rolls. Stal' 22 no.2:141-145 F '62.
(MIRA 15:2)

(Rolls (Iron mills))

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KUDRYAVTSEV, B.; PLANKIN, S.

Rear-lights of the Moskvich-402 automobiles. Za rul. no.12:10 D '57. (MIRA 11:1)
(Automobiles--Lighting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKINA, E.A.

Epidemiology of viral gastroenteritis. Zhur.mikrobiol. epid. i immun. no.6:86-90 Je '55. (MLRA 8:9)

1. Iz Moskovskoy nablyudatel'noy protivochumnoy stantsii Ministerstva zdravookhraneniya SSSR.
(VIRUS DISEASES,
gastroenteritis, epidemiol. in Russia)
(GASTROENTERITIS, bacteriology,
viral, epidemiol. in Russia)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

AUTHOR: Plankina, A. V., Eng. (Kuznetsk Metallurgical Combine). 373

TITLE: On the durability of ingot moulds on the Kuznetsk Combine. (O stoykosti izlozhnits na Kuznetskom Kombinate).

PERIODICAL: "Stal'" (Steel), 1957, No.4, pp.362-365 (U.S.S.R.)

ABSTRACT: Dimensions and types of ingots used, types of steel cast into them and the method of production of ingot moulds are given. Statistical data for the durability of ingot moulds during 1951-55 are given in Table 2. On the basis of the above data the influence of various factors on the ingot mould life was investigated. It was found that: 1) transfer to casting the ingots through two stoppers decreases the durability of moulds; 2) Introduction of blast-furnace ferrosilicon into the charge used for manufacturing ingot moulds decreases their life; 3) slow cooling of the moulds after their casting increases their durability and 4) storing moulds for some time before their use has no influence on their life. There are 4 tables and 3 figures.

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PLANKINA, A.V., inzhener.

Life of molds in the Kuznetsk Combine. Stal' 17 no.4:362-365 Ap '57. (MLRA 10:5)

1.Kuznetskiy metallurgicheskiy kombinat.
(Stalinsk--Steel ingots)

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PLANKINA, A.V., inzh.; BELIFOV, P.Ye., inzh.; CHAYKIN, I.K., inzh.

Thin-sheet mill rolls of magnesium-treated cast iron. Stal' 23 no.6:544-546 Je '63. (MIRA 16:10)

1. Kuznetskiy metallurgicheskiy kombinat.

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BELIKOV, I.N.; PLANKINA, A.V.

Cast and shaped rolls for rolling grolleyous rails. Mash. proizv. (MIRA 18:7)
no.4:39 Ap '64.

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L 17691-63
ACCESSION NR: AP3004851

somewhat from the presently accepted value of -0.80.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Institute of Radio Physics, Gor'kiy University)

SUBMITTED: 22Jan63 DATE ACQ: 27Aug63 ENCL: 00

SUB CODE: AS NO REF SOV: 003 OTHER: 001

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

L 17691-63 EWT(1)/FBD/FCC(w)/BDS/EEC-2/ES(v) AFFTC/ESD-3 76
Pe-4/Pi-4/Pq-4 PT-2 75
ACCESSION NR: AP3004851 S/0141/63/006/003/0631/0631

AUTHOR: Lastochkin, V. P.; Plankin, E. B.; Stankevich, K. S.

TITLE: Precise flux density measurement of the discrete source in Cassiopeia-A at 3.2 cm

SOURCE: IVUZ. Radiofizika, v. 6, no. 3, 1963, 631

TOPIC TAGS: radio source, cosmic radio source, Cassiopeia-A, Cas-A, cosmic radiation, radiation flux density, discrete radio source, radio telescope, radio brightness

ABSTRACT: Results of 3.2-cm radiation recorded from Cas-A in the fall of 1962 proved to agree within 1% with those reported earlier by Stankevich (Astron. zh., 39, 610(1962)) which indicates good repeatability of the method. As before, calibration was against a black-body disk placed in the Fraunhofer zone of the antenna and subtending 8.8' at an elevation of 22°. On the basis of 80 measurements, the flux density at 3.2 cm was found to be 5.14×10^{-24} w/m^2/cps, at an overall rms error of ±5%. When combined with existing 10.26-cm data from Cas-A, this yields a spectral index of -0.87 for the centimeter band, which differs

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LASTOCHKIN, V.P.; PLANKIN, A.S.; STANKEVICH, K.S.

Precise measurement of radio emission from the discrete source Cassiopeia-A at λ=3.2 cm. Izv. vys. ucheb.zav.; radiofiz. 6 no. 3:631 '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.
(Radio astronomy)

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SHKOLNIK, M. YA.; MAYKOVA, T. A.; [illegible]

Plants, [illegible] of soils on

[illegible] plants brought [illegible]
AN SSSR, M., no. 4, 1954.

Monthly List of Russian Accessions, Library of Congress, [illegible]

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PLANK, R.

PLANK, R., prof., doktor

System for refrigerant identification [with summary in English]. Khol. tekh. 35 no.1:31-32 Ja-F '58. (MIRA 11:2)
(Regrigerants)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANKEVICH, Yu. M.

3407. Vliyanie prodolzhitel'nosti fotoperioda osveshchennosti i faktora temperatury pitaniya na rost, razvitie i prodolzhitel'nost' tvoreniya [illegible]. Sbornik nauch. rabot studentov Karelofin. un-ta, vyp. 1, 1[illegible], s. [illegible] - Bibliogr: 13 nazv

SO: Knizhnaya Letopis', Vol. 7, 19[illegible]

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PLANKEVICH, Yu. E.

62

The tempering of plants to dry conditions, before sowing, in boric acid solution. M. Ya. Shkol'nik, N. A. Makarova, and Yu. E. Plankevich. *Doklady Akad. Nauk S.S.S.R.* 84, 841–4 (1952).—Seeds of wheat, barley, sunflower, and alfalfa were given a preliminary 24-hr. soaking in solns. of boric acid (0.11 g./l. of water), $MnSO_4$, and $ZnSO_4$ (0.8 g./l. of water) in order to increase resistance of seeds to drying and thereby to increase yields. With podzol soils poor in B, the boric acid treatment gave increased yields of 5, 25, and 29% with 3 varieties of wheat, 12 and 60% increase with barley, and a 15% increase of oil yield with sunflower. Treatment by Henkel's method (alternate soaking and drying) with Mn, Zn, and Cu sulfate solns. and ammonium molybdate soln. gave smaller increases (3 and 6%) and even decreased yields in a few cases. Dry dusting of the seeds with fertilizer contg. B and Mg had no effect. Soaking gave 3 times the yields of the usual dosage with B-Mg fertilizer but required only $^1/_{80}$ the amt. of boric acid. This method was said to be effective in dry and northern regions of the U.S.S.R. A. W. Daly

(2)

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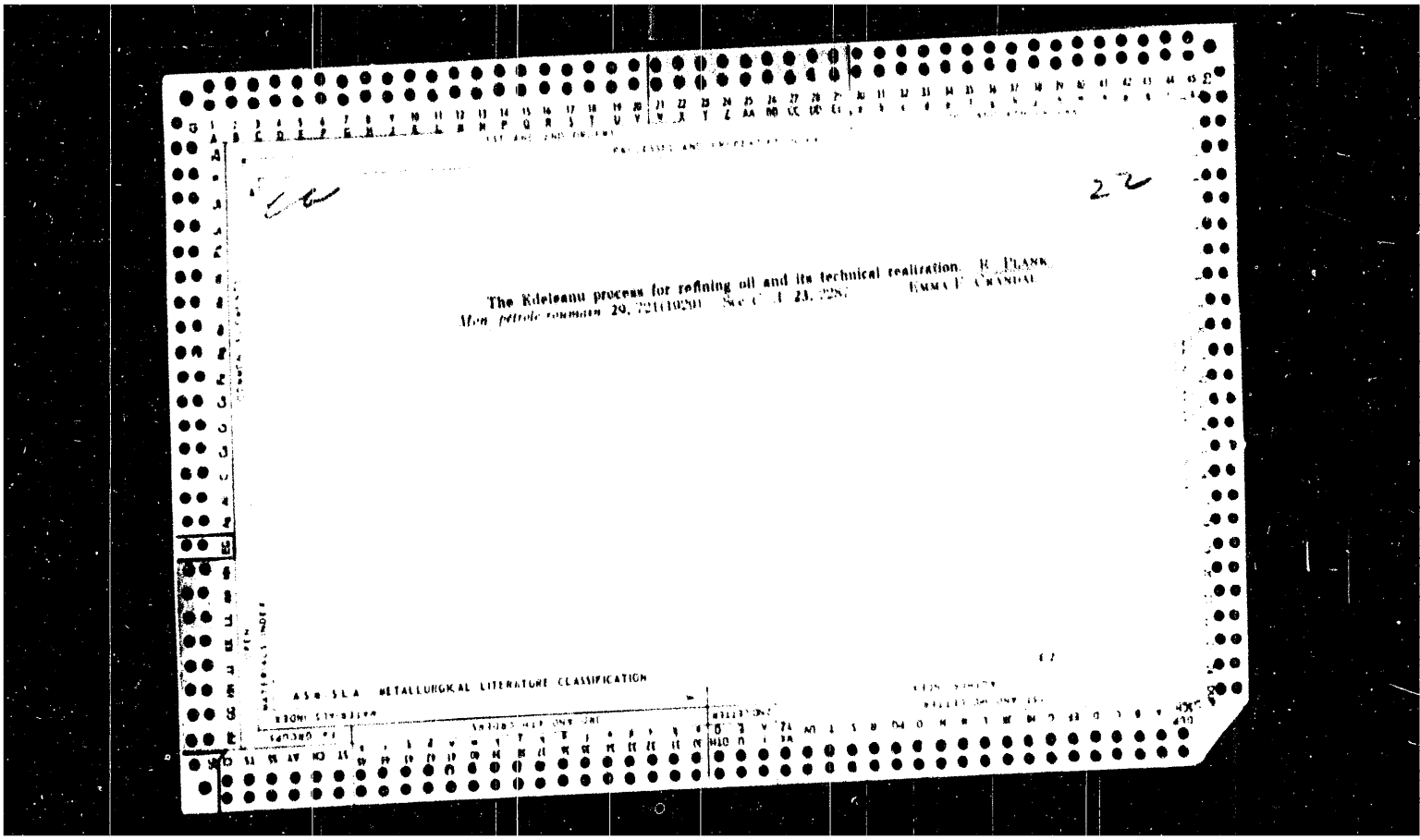
PLANKENBURG, V., doktor, inzhener; WINTER, A., doktor, inzhener.

Transformers produced by national machine-building works in the German Democratic Republic. Energetik 4 no.3:37-38 Mr '56. (MLRA 9:6)

1.Glavnyy konstruktor transformatornogo zavoda imeni Karla Libknekhta v Berline (for Plankenburg).2.Glavnyy konstruktor zavoda transformatorov i rentgenovskogo oborudovaniya v Drezdene (for Winter).
(Germany, East--Electric transformers)

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The Kdeleanu process for refining oil and its technical realization. R. PLANK, EMMA P. CRANDALL
Mon. pétrole roumain 29, 721(1930). See C. A. 23, 2287.

A5e SEA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200044-6

PLANK, R., prof., doktor

My impressions [with summary in English]. Khol.tekh. 35 no.6:10-11 N-D '58. (MIRA 12:1)

1. Vysshaya tekhnicheskaya shkola v Karlsrue, Federal'naya Respublika Germanii.
(Refrigeration and refrigerating machinery--Congresses)

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Modern Refrigeration Installations for Making Ice SOV/56-38-3-3/31

According to the writer there are over a hundred plants of the V.I.
bushevich type in operation. The article includes derivation of formulae
for calculating the time required for the formation of ice in the V.I.
bushevich machines, which calculations coincide with the practical results
obtained by means of experiments.
There are 3 photos, 6 diagrams, 1 English and 1 German references.

ASSOCIATION: Vyssheye tekhnicheskoye uchilishche (Higher Technical College, Karlsruhe GFR)

Card 2/2

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SOV/66-59-3-3/31

14(1)

AUTHOR: Plank, R. Professor, Doctor

TITLE: Modern Refrigeration Installations for Making Ice

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 3, pp 10-15 (USSR)

ABSTRACT: The article describes two types of ice producing plants which have been developed recently. One type, producing tube ice, has been designed by Linde in Hamburg; it is a fully automated plant for producing 300 ton of ice per day and having a storing capacity of 600 ton of ice. The article describes the tubular system of ice generators, of which there are 5 in the plant under construction. The rest of the installation consists of a complex conveyor mechanism which discharges the ice into a refrigerated store room, from which it is delivered by mechanical means, into vehicles or ships. The second type described in the article is the plant of the Vil'bushevich system, which has the great advantage over the former type of plant, of being capable of producing ice 8 times as fast. This is achieved by means of direct ammonia cooling of the ice containers. Furthermore the process of freezing is accelerated by the introduction of a tube, or several tubes, into the interior of the ice mold; ammonia vapor is employed as a cooling agent in the tubes.

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Deep Freeze Installations for Boiling Temperature of -70° to -100°C

stallation operating at -100°C which is located in Ludwigsburg Chemical Plant, Germany (see H. Güterbock, Hauszeitschrift der Badischen Anilin- und Sodafabrik, Volume 4, Nr 3, June 1954 page 116). Attention is also drawn to a development by Professor Badylkes, who claims that temperatures of -100°C can be attained with one cooling agent only, e.g. Freon 22, using in the lower stage a vapor ejector as booster. A similar installation, only with a single phase compressor, using ammonium, is in operation in the Laboratory of VNIKhI attaining -35°C. There are: 1 block diagram and 4 references, 2 of which are Soviet, 1 German and 1 English.

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SOV/66-59-2-7/31

14(1)

AUTHOR: Plank, R., Professor, Doctor

Deep Freeze Installations for Boiling Temperatures of -70° to -100°C (Kholodil'nyye ustanovki dlya temperatur kipeniya ot -70° to -100°)

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 26-29 (USSR)

ABSTRACT: For cold generation of -120° to -160°C air compressors are the most suitable equipment. For this purpose Philips machines are being employed, which, however, are not available for large capacity installations. In this connection the writer refers to an article by T. Gogolina and Ye. Rybkin, Engineers, published in the Nr 2 issue of Kholodil'naya tekhnika, 1958, which describes the project of a deep-freeze installation for an oil refinery requiring a temperature of -75°C. To meet this condition, 3 cooling agents were required and a so-called cascade system of refrigeration. The authors give a detailed description of another large deep-freeze installation in use by an US Air-Force Base in Dayton, Ohio (see I.R. Harnich, N.E. Hopkins, Chemical Engineering Process, April 1958), using Freon 11 and Freon 13. The article further describes a deep-freeze in-

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PLANK, R., professor.

Magnetic "cooling" machine for reaching temperatures lower than 1° K. Khol.tekh.33 no.2:35-38 Ap-Je '56. (MLRA 9:9)
(United States--Low temperature research)

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PLANK, R., prof., doktor

Should we abandon the calorie as the unit of heat? Khol.tekh.38 no.2:47 Mr-Ap '61. (MIRA 14:3)

1. Vysshaye tekhnicheskoye uchilishche v Karlsrue, Federativnaya Respublika Germanii.
(Heat--Notation)

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PLANK, R., prof., doktor

Refrigerating plants for temperatures from -70°C to -100°C.
Khol. tekh. 36 no.2:26-29 Mr-Ap '59. (MIRA 12:8)
(Regrigeration and refirgerating machinery)

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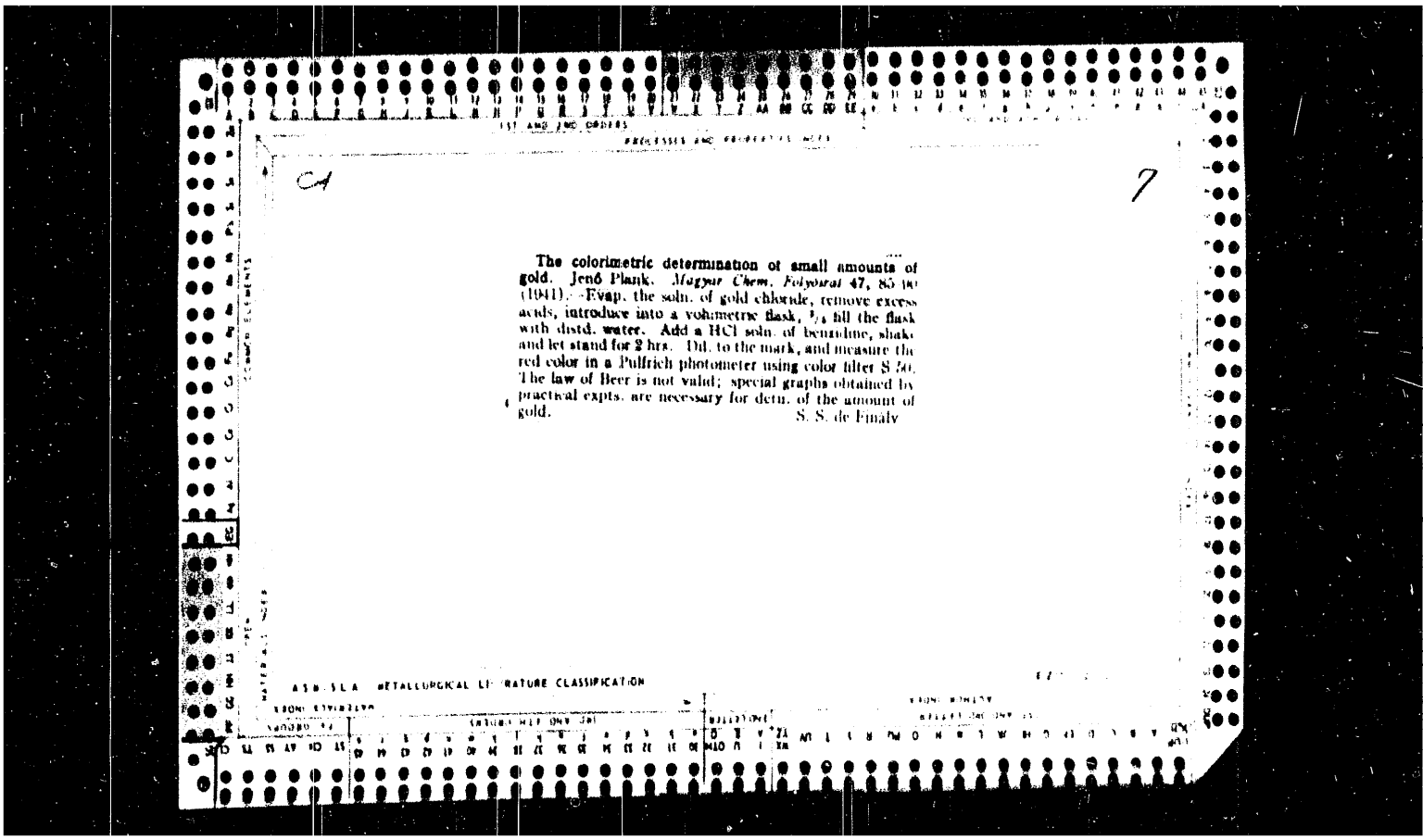
PLANK, Julius, MUDr

Design of a patological- anatomical department of a hospital of 500 or more beds. Cesk. nemoc. 22 no.6:143-150 25 Nov 54.

1. Z patologicko-anatomickeho oddelenia KUNZ v Presove
(HOSPITALS
patol.-anat. department designs)

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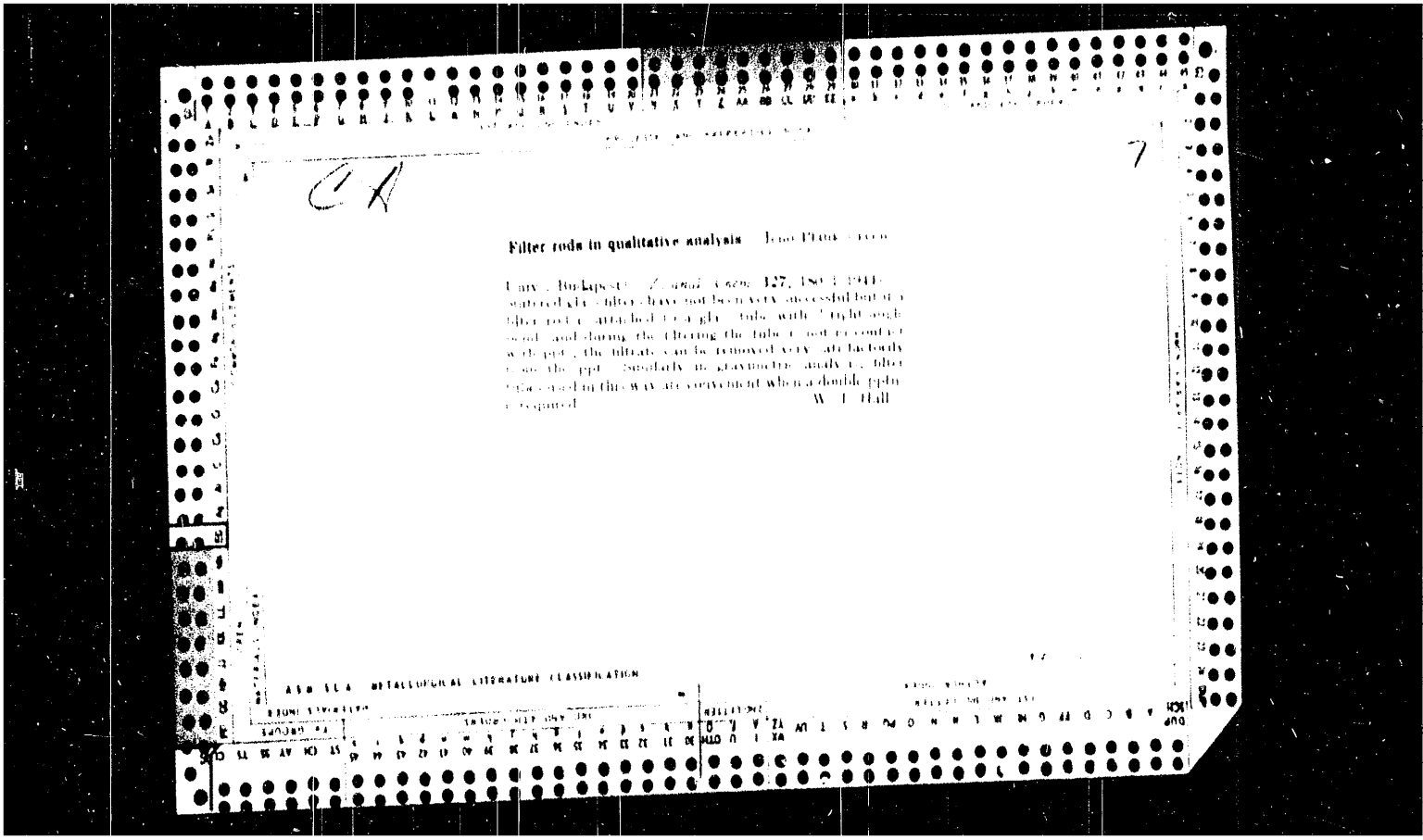


The colorimetric determination of small amounts of gold. Jenő Plank. *Magyar Chem. Folyoirat* **47**, 85-90 (1941).—Evap. the soln. of gold chloride, remove excess acids, introduce into a volumetric flask, ¾ fill the flask with distd. water. Add a HCl soln. of benzidine, shake and let stand for 2 hrs. Dil. to the mark, and measure the red color in a Pulfrich photometer using color filter S 50. The law of Beer is not valid; special graphs obtained by practical expts. are necessary for detn. of the amount of gold.

S. S. de Finaly

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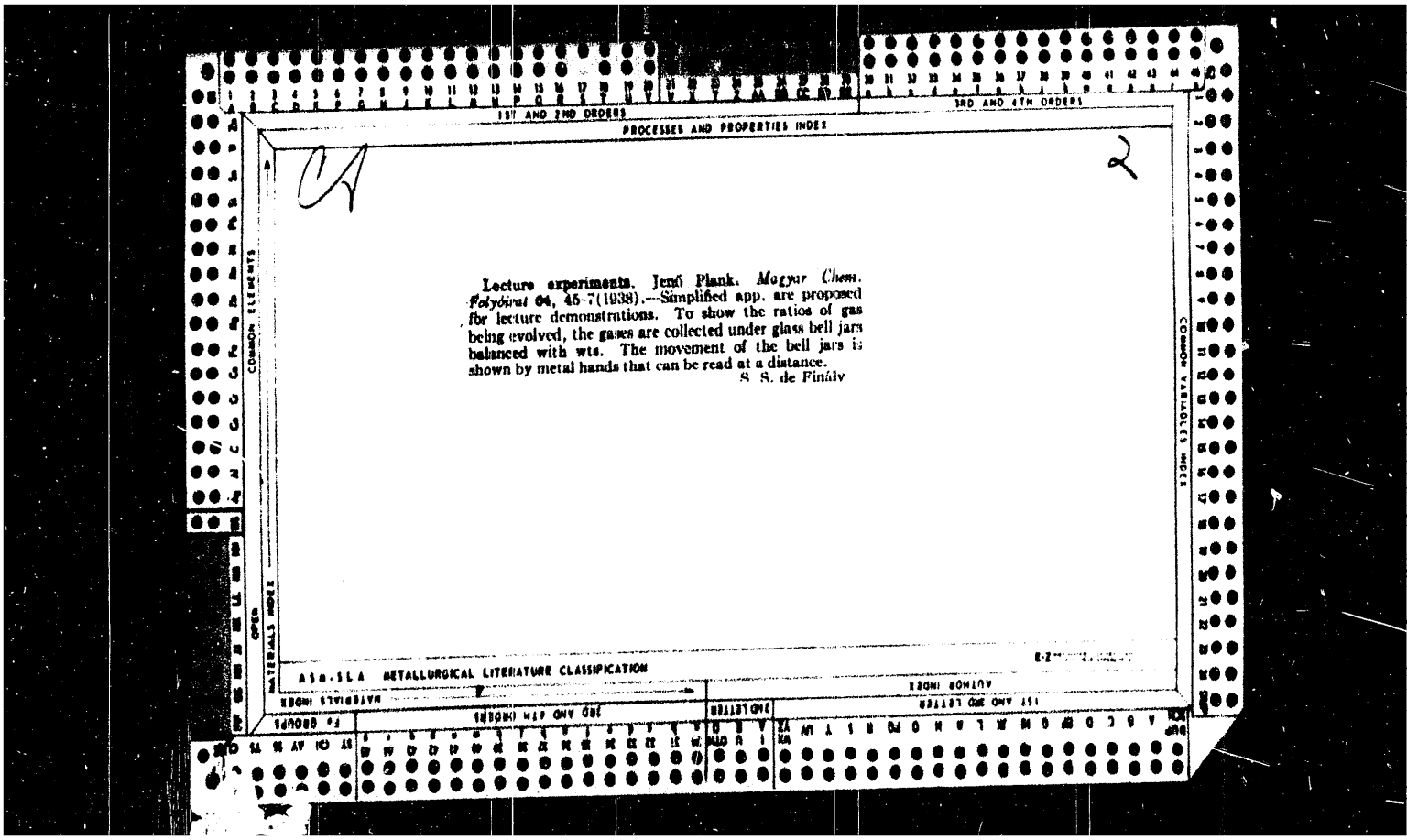
Filter rods in qualitative analysis [illegible]

[illegible] Barkapsetti [illegible] 127, 180 [illegible]
satured air-filter have not been very successful but a
filter rod is attached to a glass tube with right angle
bend and during the filtering the tube is not in contact
with ppt., the filtrate can be removed very satisfactorily
from the ppt. Similarly in gravimetric analysis filter
rods used in this way are convenient when a double pptn
is required.

W. T. Hall

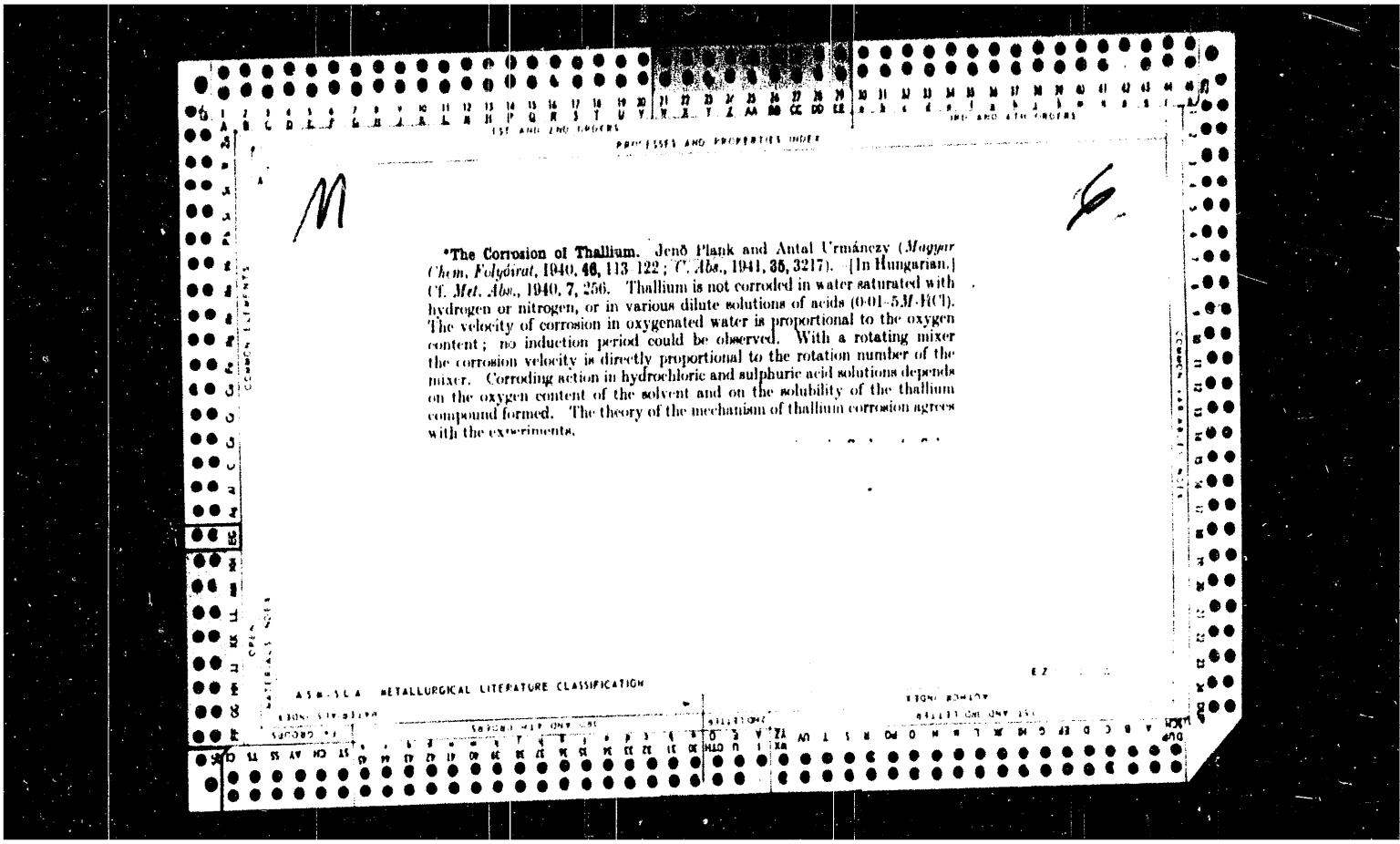
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PROCESSES AND PROPERTIES INDEX

M

6

***The Corrosion of Thallium.** Jenő Plank and Antal Urmánczy (*Magyar Chem. Folyóirat*, 1940, **46**, 113–122; *C. Abs.*, 1941, **35**, 3217). [In Hungarian.] Cf. *Met. Abs.*, 1940, **7**, 256. Thallium is not corroded in water saturated with hydrogen or nitrogen, or in various dilute solutions of acids (0·01–5*M*-HCl). The velocity of corrosion in oxygenated water is proportional to the oxygen content; no induction period could be observed. With a rotating mixer the corrosion velocity is directly proportional to the rotation number of the mixer. Corroding action in hydrochloric and sulphuric acid solutions depends on the oxygen content of the solvent and on the solubility of the thallium compound formed. The theory of the mechanism of thallium corrosion agrees with the experiments.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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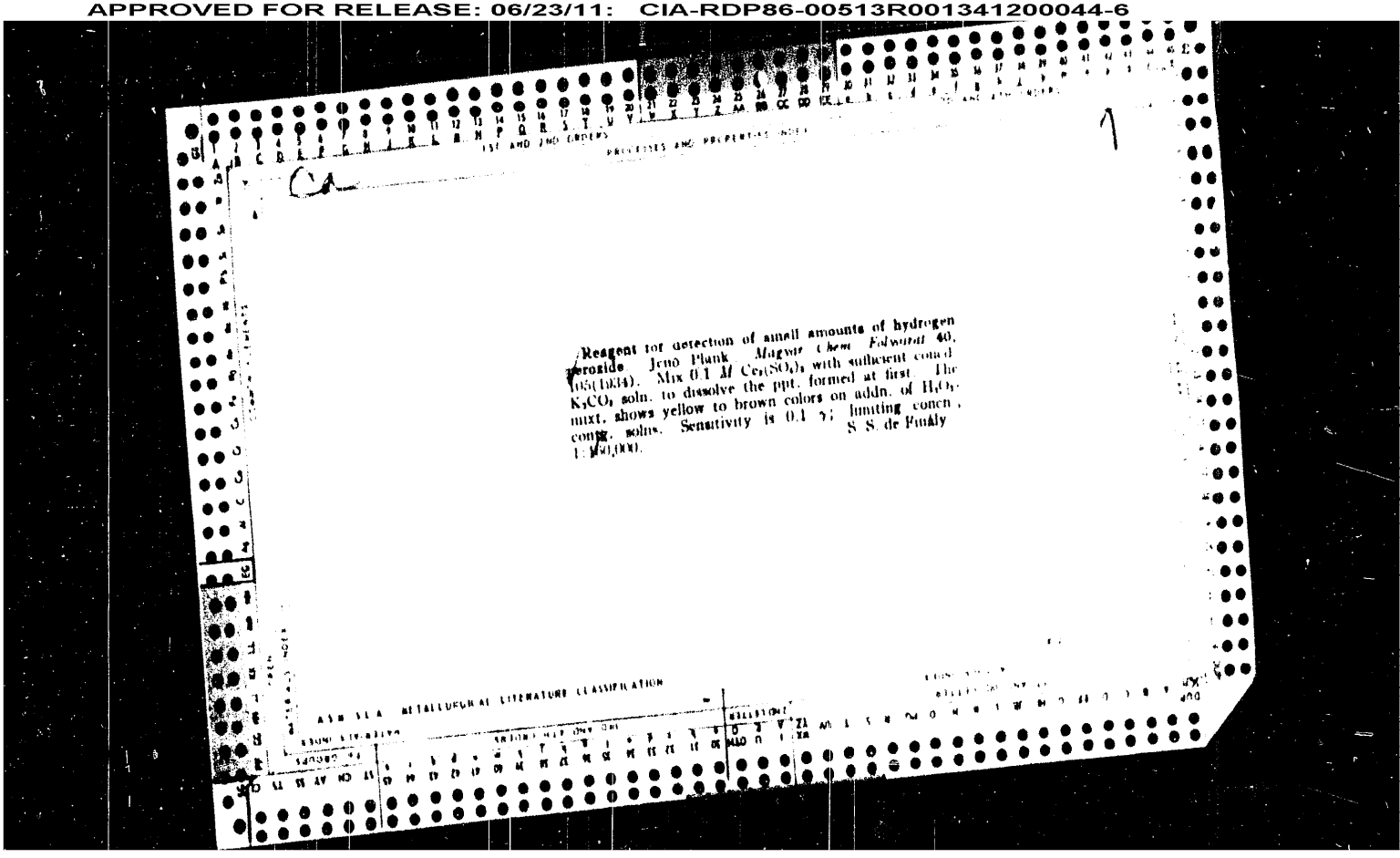
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C A.

Determination of traces of zinc in aluminum and in bauxite. Jenő Plank, Endre Bodor, and György Rady. *Magyar Kém. Lapja* **4**, Tech. Sci., Budapest, Hung.). The method of Fischer and Leopoldi (C. A. 33, 6688 (1939)) was modified and its sensitivity increased. The sample is dissolved in a mixt. of 25 ml. concd. HCl and 5 ml. hot distd. water. With some alloys also add 0.2 g. KClO$_3$ or 10 ml. 30% H$_2$O$_2$. Evap. in ceramic dish to dryness, dil. to 500 ml., and measure an aliquot (contg. about 10–60 γ Zn) into a separatory funnel. Add 5 ml. 10% tartaric acid soln. for each 100 mg. Al content, make slight alk. with 2.0 *N* NH$_4$OH, and ext. with 5-ml. portions of dithizone soln. for 15–20 sec. Shake the combined CCl$_4$ phases for 30 sec. with 3% HCl and then mix the HCl phase with 10% NaOAc soln. until blue Congo paper turns red. Add 1 to 1.5 ml. of 30% sodium thiosulfate and 1.0–1.5 ml. KCN soln. and shake the mixt. with 3–5 ml. portions of dithizone soln. as above, until a clear green color is obtained. Shake the combined CCl$_4$ fractions 4 times with 10 ml. portions of a 0.05% NaOH soln. to remove excess dithizone. Measure the extinction of the remaining red soln. contg. Zn dithizonate in a Pulfrich photometer with filter S 53. Bauxites must be dissolved by a mixt. of concd. HCl, concd. HNO$_3$, and 18 *N* H$_2$SO$_4$, heated until H$_2$SO$_4$ fumes appear, and the residue dissolved with 2% HCl. This soln. can be treated as above. — I. F.

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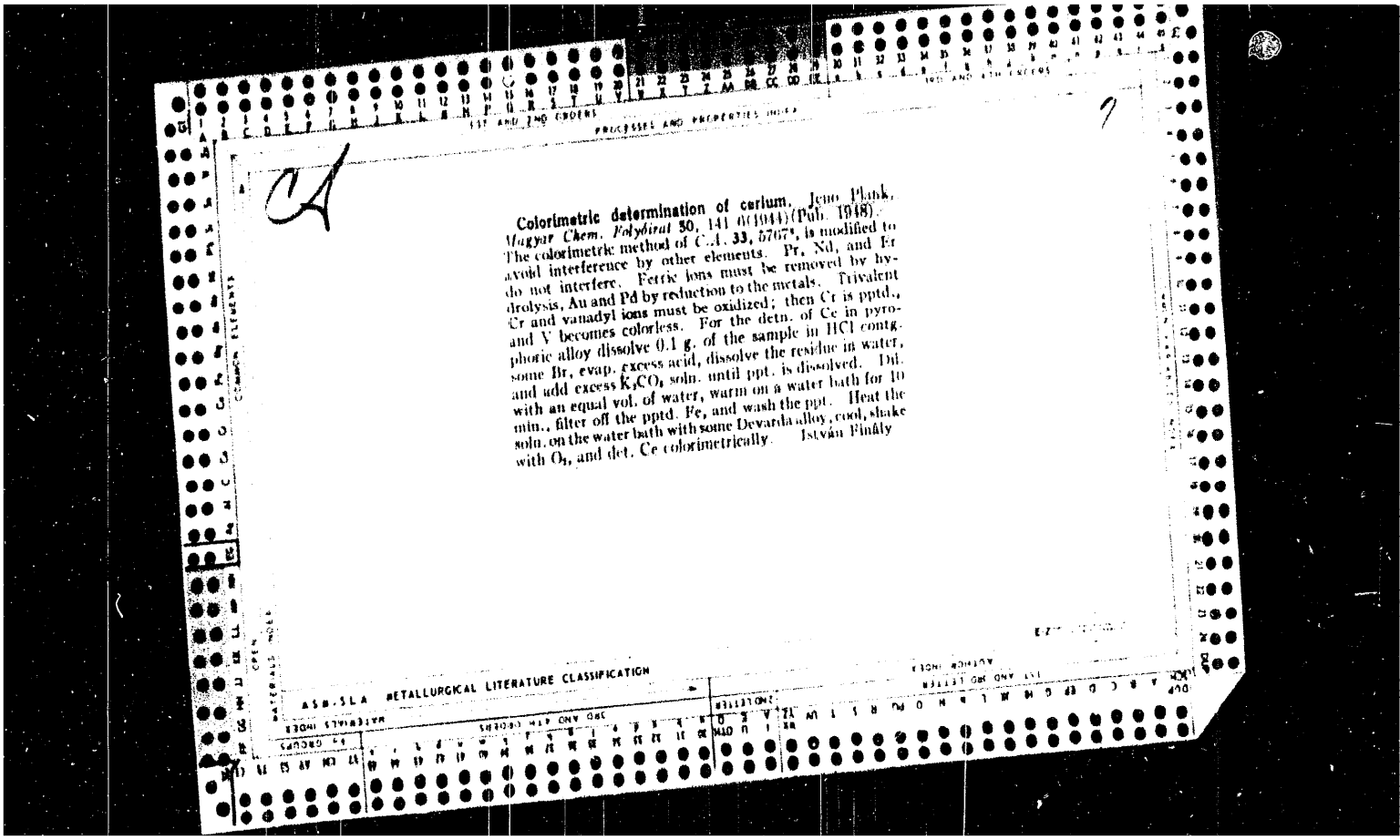
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Reagent for detection of small amounts of hydrogen peroxide. Jenö Plank. *Magyar Chem. Folyoirat* 40, 105(1934). Mix 0.1 *M* $Ce_2(SO_4)_3$ with sufficient concd K_2CO_3 soln. to dissolve the ppt. formed at first. The mixt. shows yellow to brown colors on addn. of H_2O_2 to comparison solns. Sensitivity is 0.1 γ; limiting concn., 1:500,000. S. S. de Finály

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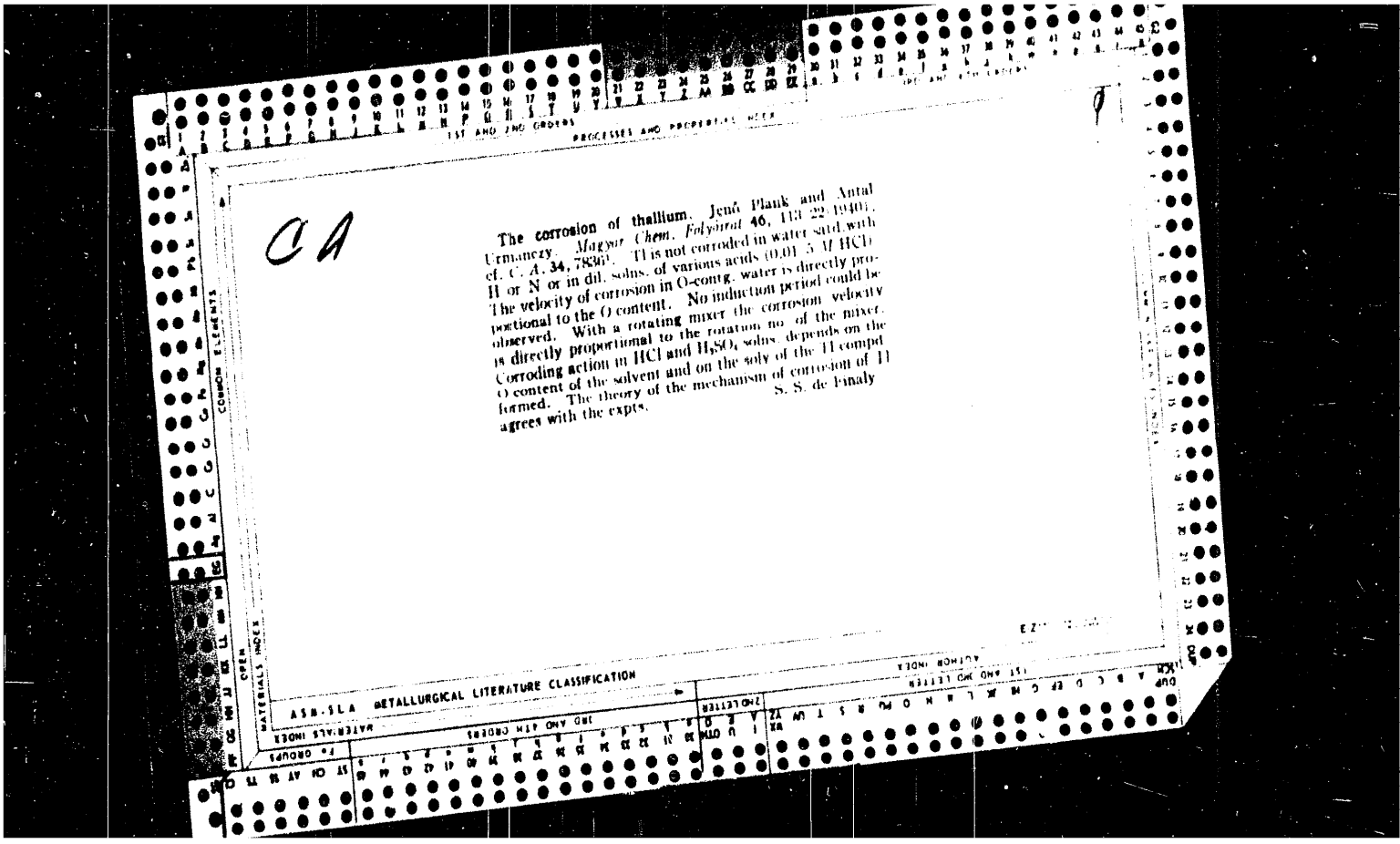


CA

Colorimetric determination of cerium. Jeno Plank. *Magyar Chem. Folyóirat* **50**, 141 0(1944)(Pub. 1948). The colorimetric method of C.A. **33**, 5767⁸, is modified to avoid interference by other elements. Pr, Nd, and Er do not interfere. Ferric ions must be removed by hydrolysis, Au and Pd by reduction to the metals. Trivalent Cr and vanadyl ions must be oxidized; then Cr is pptd., and V becomes colorless. For the detn. of Ce in pyrophoric alloy dissolve 0.1 g. of the sample in HCl contg. some Br, evap. excess acid, dissolve the residue in water, and add excess K_2CO_3 soln. until ppt. is dissolved. Dil. with an equal vol. of water, warm on a water bath for 10 min., filter off the pptd. Fe, and wash the ppt. Heat the soln. on the water bath with some Devarda alloy, cool, shake with O_2, and det. Ce colorimetrically. István Finály

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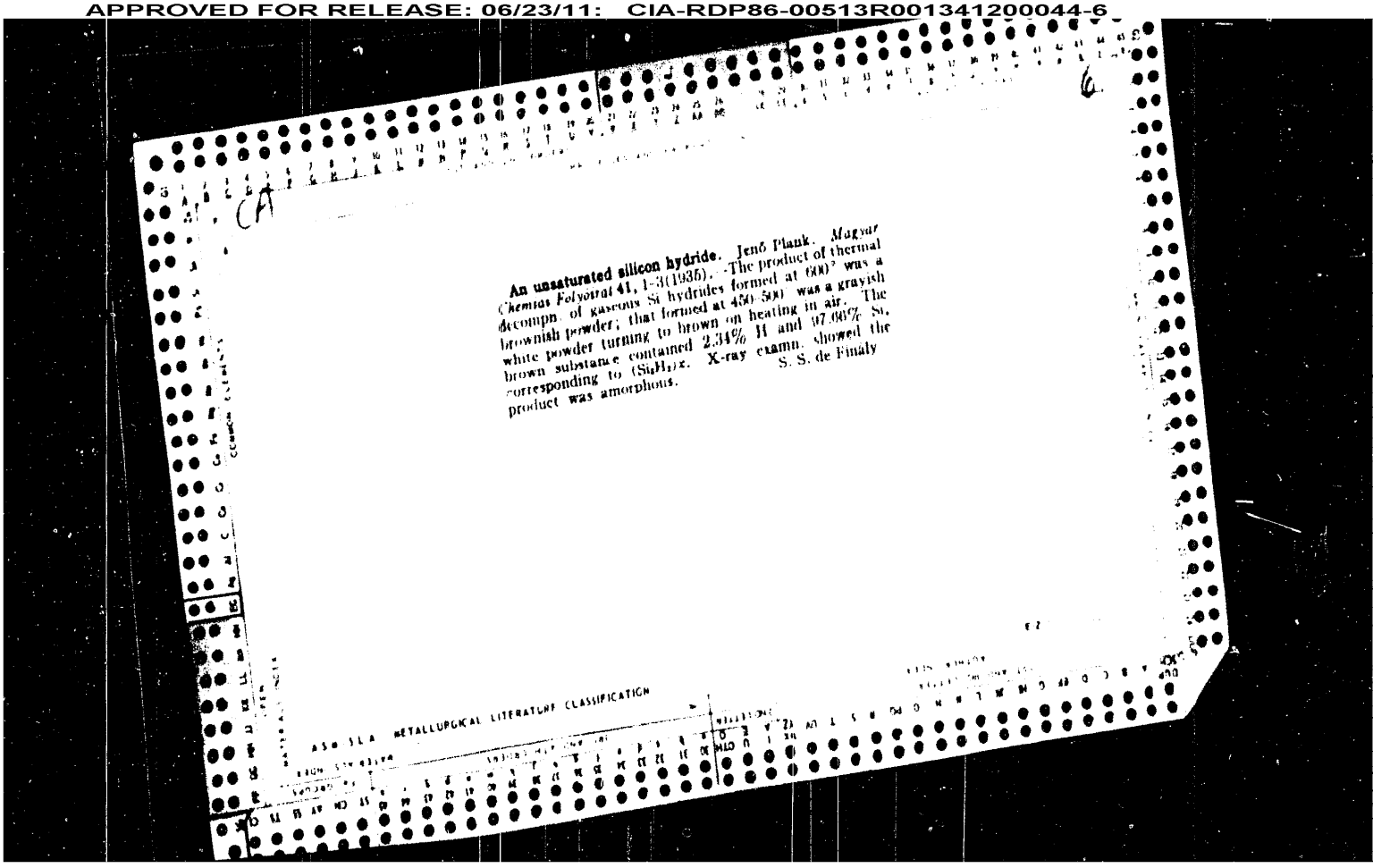
CA

The corrosion of thallium. Jenő Plank and Antal Urmanczy. *Magyar. Chem. Folyóirat* **46**, 113-22 (1940); cf. *C. A.* **34**, 7836⁹. Tl is not corroded in water satd. with H or N or in dil. solns. of various acids (0.01 *N* HCl). The velocity of corrosion in O-contg. water is directly proportional to the O content. No induction period could be observed. With a rotating mixer the corrosion velocity is directly proportional to the rotation no. of the mixer. Corroding action in HCl and H_2SO_4 solns. depends on the O content of the solvent and on the soly. of the Tl compd. formed. The theory of the mechanism of corrosion of Tl agrees with the expts.

S. S. de Finaly

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An unsaturated silicon hydride. Jenő Plank. *Magyar Chemias Folyoirat* **41**, 1-3(1936). -The product of thermal decompn. of gaseous Si hydrides formed at 600° was a brownish powder; that formed at 450-500° was a grayish white powder turning to brown on heating in air. The brown substance contained 2.34% H and 97.00% Si, corresponding to $(Si_2H_3)_x$. X-ray examn. showed the product was amorphous.

S. S. de Finaly

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PLANK, Jeno

An unsaturated silicon hydride. Jenő Plank. *Magyar Chemiai Folyóirat* 41, 1–3(1935).—The product of thermal decompn. of gaseous Si hydrides formed at 800° was a brownish powder; that formed at 450–500° was a grayish white powder turning to brown on heating in air. The brown substance contained 2.34% H and 97.66% Si, corresponding to $(Si_2H_2)x$. X-ray examn. showed the product was amorphous.

S. S. de Finály

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PLANK, JENÖ

10535* Rapid Methods for Aluminum Analyses. Gyors módszerek az alumíniumelemzéshez. I. (Hungarian.) Jenő Plank. *Kohaszati Lapok*, v. 9, no. 4, Apr. 1956, p. 188-189. Includes tables. 4 ref.

Chem 1 2

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PLANK, J.; REZUCHA, M.; ROJKOVIC, D.

First two diagnosed cases of hemorrhagic nephroso-nephritis in Czechoslovakia; viral nephroso-nephritis of Far East. Cas. lek. cesk. 94 no.40:1078-1084 30 Sept 55.

1. Z patologicko-anatomickeho odd., prednosta dr. J. Plank, a z infekcneho odd., prednosta Dr. D. Rojkovic, KUNZ v Presove.
(EPIDEMIC HEMORRHAGIC FEVER, epidemiology,
in Czech., first cases.)

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PLANK, J.

Prosector services in Czechoslovakia. Lek obzor 2 no.8:504-509 Aug 1953. (CLML 25:4)

1. Of KUNZ Prosectorium, Presov.

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PLANK, J.

Rapid methods of analyzing aluminum. II. Rapid photometric determination of vanadium. p.238.
(Kohaszati Lapok. Budapest. Vol. 11, no. 5, May 1956.)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Unl.

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PLANK, J.

Quick methods for the analysis of aluminum. I. p.166. (Kohaszati Lapok. Budapest, Vol. 11, no. 4, Apr. 1956.)

SO: [illegible] List of East European Accessions ([illegible]) LC., Vol. [illegible], [illegible], [illegible]

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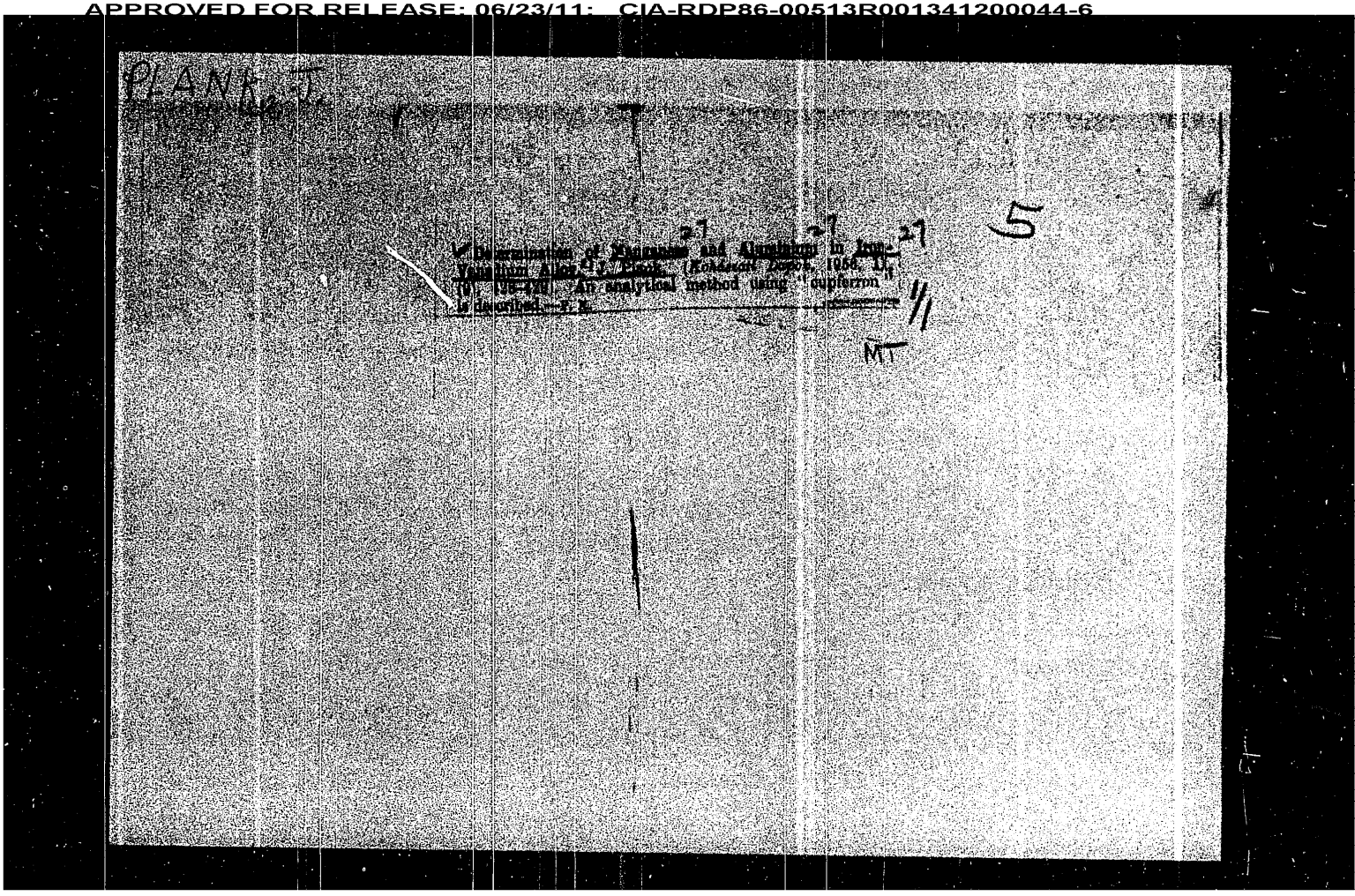
[illegible], A.

Determination of the manganese and chromium content in ferromanganese. (In Hungarian) (Kohaszati Lapok Budapest, Vol. 11, no. 9, Sept. 1958. Monthly list of East European Accessions, Vol. 7, no. 9)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

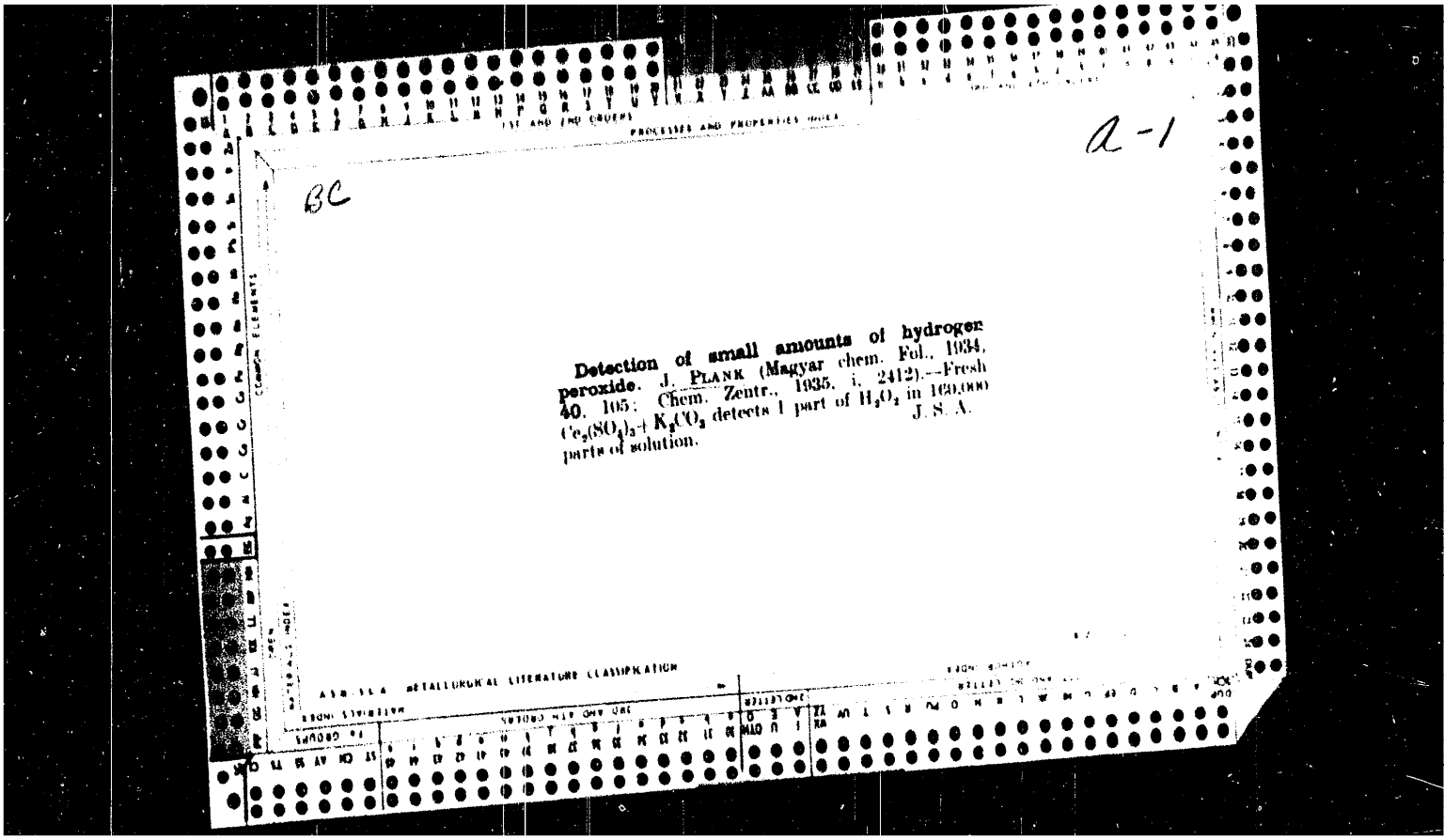
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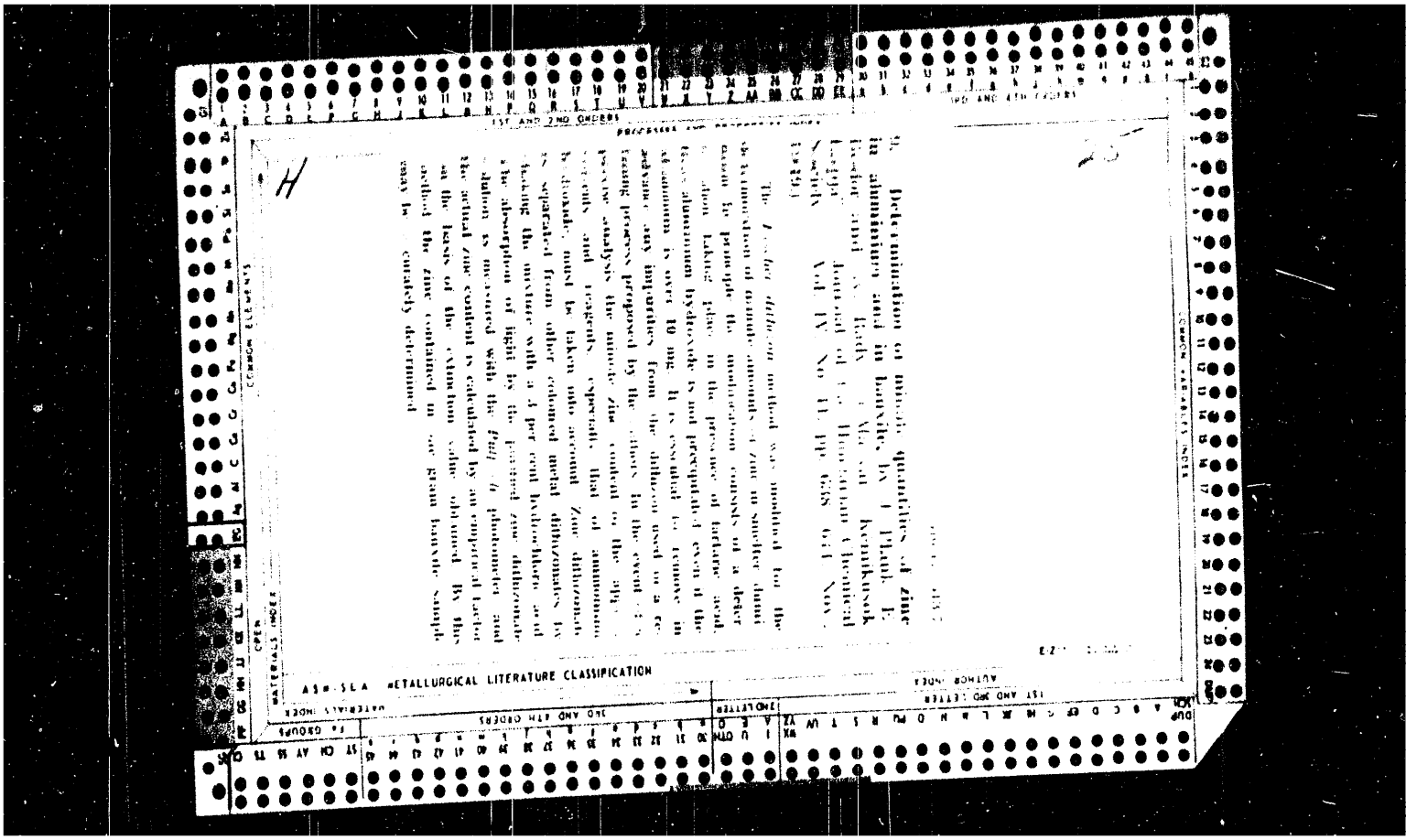
a-1

BC

Detection of small amounts of hydrogen peroxide. J. PLANK (Magyar chem. Fol., 1934, 40, 105; Chem. Zentr., 1935, i, 2412).—Fresh $Ce_2(SO_4)_3 + K_2CO_3$ detects 1 part of H_2O_2 in 160,000 parts of solution. J. S. A.

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PLANK, J.

(2) 7

Gravimetric determination of mercury with adipic acid. J. Plank (Hungarian Acad. Sci., Budapest). *Acta Chim. Acad. Sci. Hung.* 3, 387-90(1953)(in German).—$Hg_2(NO_3)_2$ ppts. white, cryst. $(HgOOCC_4H_8)_2$ from an aq. soln. at pH 2.8 by the addn. of satd. adipic acid soln. Since the ppt. is slightly sol., the vol. must be kept at a min. It is dried to const. wt. at 110° after washing with a little cold H_2O. There is no interference by Pb(II), Ag(I), or Tl(I).

B. P. Block

MF 11-8-54

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PLANK, J.

"Gravimetric Determination of Mercury with Adipic Acid." p. 387 (ACTA CHIMICA, Vol. 3, No. 3, 1953) Budapest, Hungary

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

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PLANISCEK, Ljubo

The exhibition MESUCORA, (i.d. Measures, Control, Regulation, Automation). Automatika 2 no.3:179-180 Ag '61.

(Paris--Exhibitions) (Electronics)

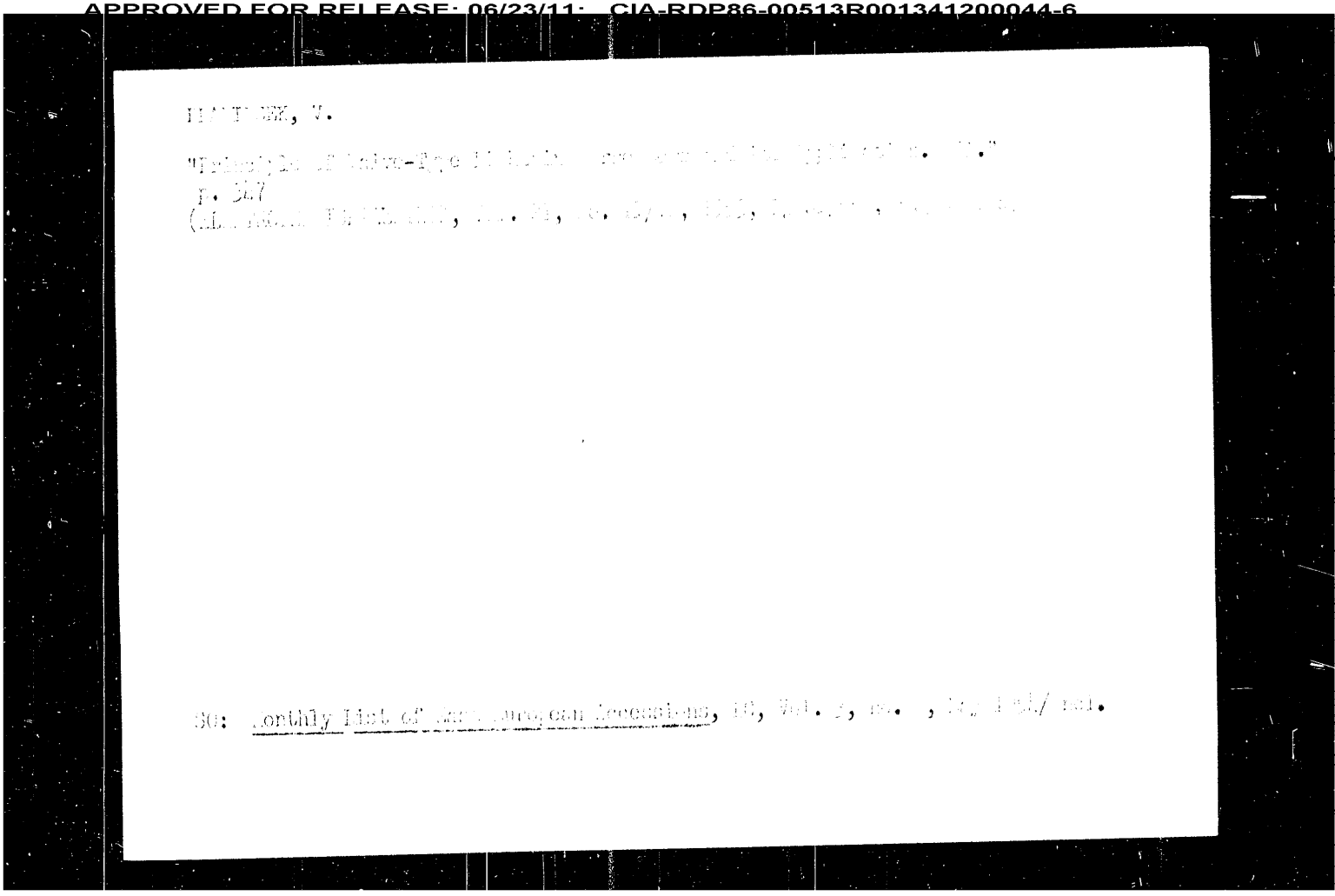
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[illegible] V.

"[illegible]"
P. 247
([illegible])

SO: Monthly List of [illegible] Accessions, LC, Vol. 2, no. , [illegible] 1951/ Unl.

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PLANINSEK, V.

Change-over switches for emergency supply. I. (To be contd.) p. 211.

(ELEKTROTEHNISKI VESTNIK. Vol. 25, No. 5/6, May./June 1957, Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

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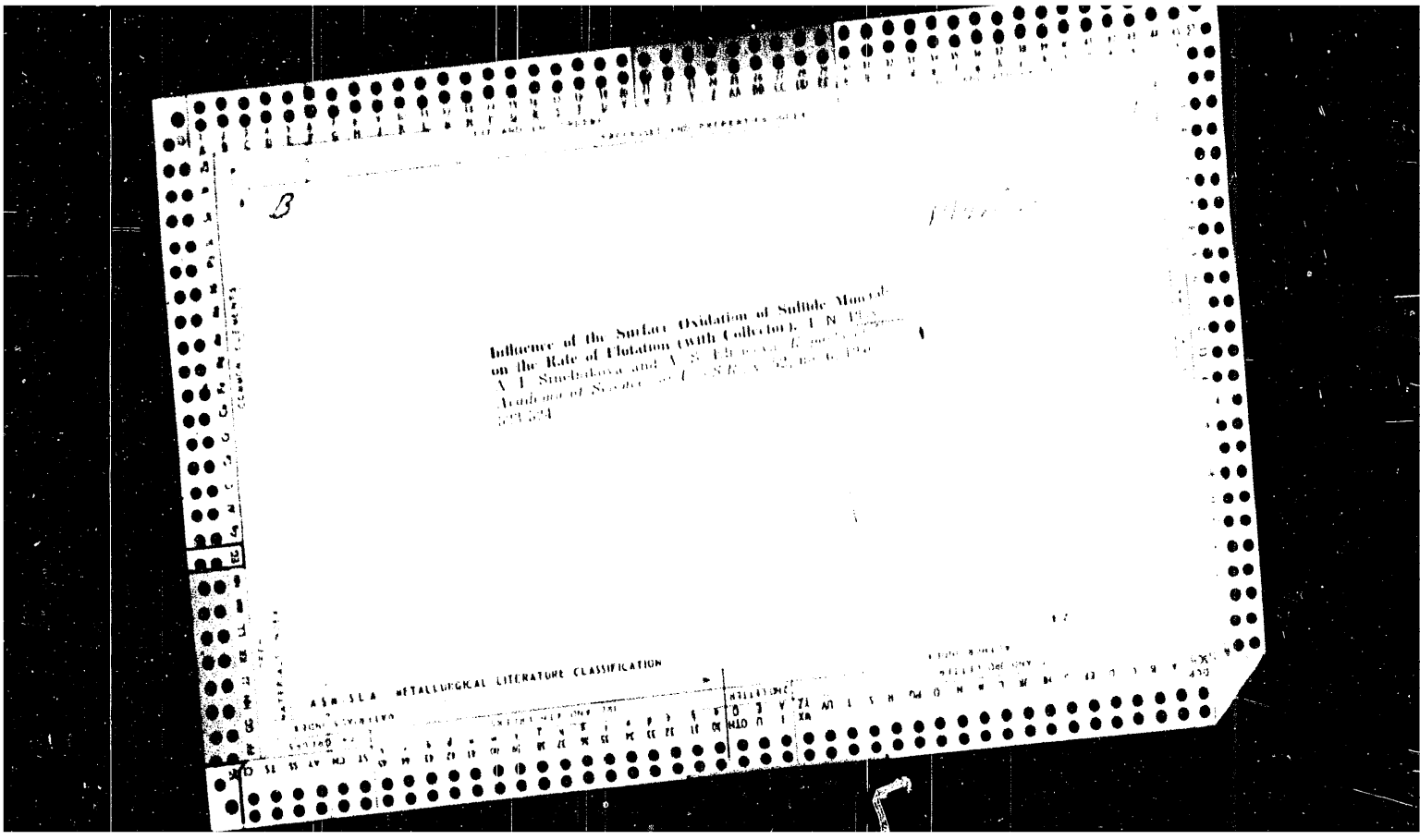
PLANINSEK, Franc

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PLANINA, J.

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Slovenian Alpine lakes. In German. p.2. THROUGH YUGOSLAVIA. (Turisticki savez Jugoslavije) Beograd. Vol. 4, no. 2, 1955.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, No. 6, June 1956

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Mildewing of theproducts of electric industries and methods of its preventing. Elektr vest 28 no.3/5:a9-a12, 76-82 Mr-Ap '60. (EEAI 10:5)

1. Tovarna Iskra, Kranj.
(Mildew) ((Electric industries)

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Molding of the products of electrotechnical industryand the ways of prevention. Elektr vest 28 no.3/5:76-82 '60.

1. Tovarna "Iskra", Kranj.

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With drawings toward clear ideas; a book review of Mavricij Zgonik's Nazornost v geografiji (Clearness in Geography). p. 26.

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p. 17
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PLANIK, Josef

Work of postmasters of small postal offices. Cs spoje T
no.9:27 S '62.

1. Okresni sprava spoju Usti nad Labem.

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PLANIK, Josef

[illegible]

1. Postmaster in Tel Aviv.

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PLANIK, Josef (Usti nad Labem)

On the proposed method of parcel processing and transporting.
Cs spoje 9 no. 2:19-21 Ap '64.

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PLANIK, Josef

On telecommunication terminology. Ca spoje 7 no.11:3 N '62.

1. Okresni sprava spoju Usti nad Labem.

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PLANIK, Josef

Transportation centers and new methods of mail processing. Cs spoje 8 no.1:30-31 F '63.

1. Postovni urad Povrly.

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KHUKHRYANSKIY, P.N., doktor tekhn.nauk; GORBENKO, A.F., starshiy prepodavatel'; PLANIDA, V.Ye., inzh.

Experiments in the use of compressed wood in the manufacture of agricultural machinery. Trakt. i sel'khozmash. no.1:38-40 Ja '64. (MIRA 17:4)

1. Voronezhskiy lesotekhnicheskiy institut.

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PLANIC, Radoslav, inz.

Building costs for the reservoir and dam power plant Peruca. Energija Hrv 10 no.11/12:353-369 '61

1. Clan Urednickog odbora, "Elektroenergija;" Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.

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PLANIC, Radoslav, ing. (Zagreb)

Financing of the electrification of non-electrified areas
Hrv 10 no. 1/2:2-9, '61

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb, Proleterskih brigada 37.

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PLANIC, Radoslav, inz.

Prognostication and effects of the building and investments in Croatia in 1957-1961. Energija Hrv 11 no.5/6:142-154 '62.

1. Zajednica elektroprivrednih poduzeca Hrvatske (Zagreb, Proleterskih brigada 37), Clan Urednickog odbora, "Energ[illegible]

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PLANIC, Radoslav, inz.; VODOPIJA, Zeljko, dipl. oc.

Characteristics of the investments in electric-power engineering in 1961. Energija Hrv 11 no.5/6:166-167 '62.

1. Zajednica elektroprivrednih poduzeca Hrvatske (Zagreb, Proleterskih brigada 37). 2. Clan Urednickog odbora, "Energija" (for Planic).

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PLANIC, Radoslav, inz. (Zagreb)

The Hydroelectric-Power Plant Split, the largest in Yugoslavia, has been put into operation. Energija Hrv [illegible] no.3/4:[illegible]-76 '62.

1. Zajednica elektroprivrednic poduzeca Hrvatske (Zagreb, Proleterskih brigada 37), clan Urednickog odbora, "Energija".

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PLANIC, Radoslav, ing. (Zagreb); VODOPIJA, Zeljko, dipl. ec. (Zagreb)

Characteristics of investment in 1960. Energija Hrv 10 no. 5/6:171-172 '61.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb, Proleterskih brigada 37. 2. Clan Urednickog odbora, "Energija," urednik rubrike "Izgradnja elektroenergetskih postrojenja" (for Planic).

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PLANIC, Radoslav, ing.

Electric power industry and bread electrification. Elektroprivreda 14 no.9:459-467 S '61.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb.

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PLANIC, R., AND OTHERS

"Efforts toward the renewal and extension of urban electric networks."

p. 286 (Energija) Vol. 6, no. 9/10, Sept./Oct. 1957
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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PLANETA-MALECKA, Izabela

Infections of the urinary system in children [illegible].
Pediat. Pol. 40 no.6:587-592 Je '65.

1. Z Katedry Pediatrii Wojskowej AM w Lodzi (Kierownik: prof. dr. med. F. Redlich [deceased]) i z Sanatorium dla Dzieci Chorych na Cukrzyce PPU w Rabce (Lekarz Naczelny: dr. med. H. Kajserowa).

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PLANETA, Natalia.

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Hydrophobization of glass by organosilicon compounds. Natalia Planeta (Inst. Przem. Szkła i Ceramiki, Warsaw). *Prace Inst. Przemysłu Szkła i Ceramiki* 5, 43–61(1958) (English and Russian summaries).—Glass objects were coated with 9 Polish silicones and tested for wetting angle and for resistance to water, acids, and alkalis. Immersing into H_2O emulsion for 0.5–2 min. followed by heating to 150–250° for 1.5–2 hrs. was found to be a satisfactory and simple procedure. J. Stecki.

JB 1/1

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Meyer D., Planeta N. **Electrogranodization.**
„Elektrogranodyzacja". Przemysł Chemiczny No 4, 1951, pp 241-246, 13 figs

Experiments show that coatings obtained by means of electrogranodization, using solvents for cold or hot bondartization, possess corrosion resistance three times greater than the coatings obtained by simple bondartization procedure.

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PLANETA,

Rubber Abstracts
March 1954
Natural Latex

697. **Rubber-coating by electrophoresis.** PLANETA and M. WIEKIERA. *Przemysł Chemiczny*, 31 (8), 473–6; *Chem. Abs.*, 1953, 47, 10 Sd. Rubber-coating of metals by electrophoresis is reviewed and the results of laboratory experiments are described. The best results were obtained (without a diaphragm) with zinc anodes and cathodes and a 20% rubber emulsion containing sulphur, carbon black, and an accelerator. 2671

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PLANETA, N.

"Galvanic Coatings in Machine Construction." p.18
(PRZEGLAD TECHNICZNY Vol. 75, no. 1, Jan. 1954 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

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PLANETA, N.

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Planeta N. **Electro-Deposition in Machine Construction.**

„Powłoki galwaniczne w budowie maszyn". Przegląd Techn. No. 1, 1954, pp. 18-22, 2 figs., 2 tabs.

Giving effect to economic programmes in the construction of machines of all kinds calls for large quantities of high-grade steel. Since certain of the components of such steels (chromium, nickel) are in short supply, investigations have been conducted over effecting savings in such metals. Electro-deposition is one means of economising. Advantages of applying electro-deposited metals in machine construction; — chance to control closely the thickness of layers; possibility of obtaining thin layers (of approx. 1 micron) which are unobtainable by any other means; high purity of the metal electrolytically parted and, consequently, a high resistance to corrosion; electro-deposition takes place in low temperatures which have no adverse effect on the properties — e. g. hardening — acquired by metals in the course of prior heat treatment; the layer deposited can repeatedly be regenerated. Criterions and difficulties in selecting materials.

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PIANETA, P.

PIANETA, P. The passivation of metals. (To be contd.) p. 263. Vol. 29, no. 7, July 1956. MECHANIK. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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